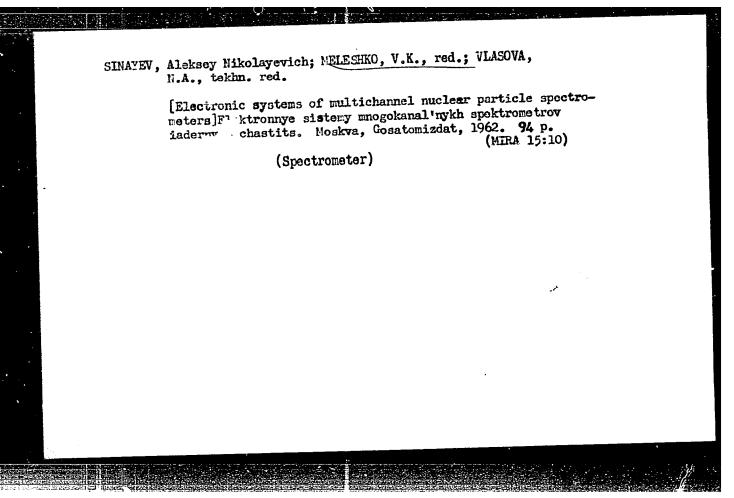
SOURCE CODE: UR/0137/66/000/004/1078/1079 ACC NR. ARGO27514 AUTHOR: Heleshko, V. I.; Kachaylov, A. P. FITTE: Effect of cold working, and temperature on the mechanical properties of Kh18N1OT steel SOURCE: Ref. 7n. Hetallurgiya, Abs. 41529 REF SOURCE: Maucha. tr. In-t chern. metallurgii Gos. kom-ta po chern. i tavetn. metallurgii pri Gosplane SSSR, v. 21, 1965, 310-313 TOPIC TAGS: cold working, stainless steel, mechanical property, plasticity, metal deformation / Kh18N1OT steel TRANSLATION: Samples were prepared from stailless steel quenched after hot-rolling and pickled. The thickness of the original samples varied within the range 3.8-3.9 mm. The samples were cold rolled. The testing temperatures were 0, 100, 200, 300 and 400°C. The amounts of deformation during rolling were 0.8, 13, 20, 40, 70 and 75%. With increase of temperature, $\sigma_{0.2}$ and σ_{b} decreased. The decrease of $\sigma_{0.2}$ was practically independent of preliminary deformation. When the temperature was raised to 100°C, the decrease in 00.2 was 5-7% for samples of nondeformed steel, while for samples deformed 7% in compression, it was about 8-9%. At 400°C, the decrease was respectively UDC: 669.15.018.8 **Card 1/2**

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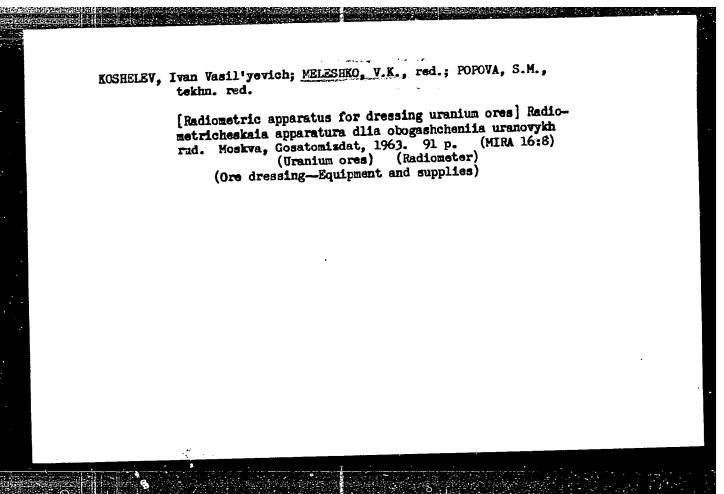
MIKHEYEV, G.F., kend. tek'un. nauk; FEYTEL'MAN, N.G., kand. ekon. nauk; MELESHKO, V.K., red.; MAZEL', Ye.I., tekhn. red.

[Method for determining the economy of utilizing atomic energy in the national economy] Metodika opredeleniia ekonomicheskoi effektivnosti ispol'zovaniia atomnoi energii v narodnom khoziaistve. Moskva, Gosatomizdat, 1963. 53 p.

(MIRA 16:12)

1. Akademiya nauk SSSR. Institut ekonomiki.

(Atomic energy—Economic aspects)



EELOV, A.F.; BELOUS, A.L.; KUZNETSOV, K.F.; KUROCHKIN, S.S.;
SALICHKO, V.N.; MELESHKO, V.K., red.; POPOVA, S.M.,
tekhn. red.

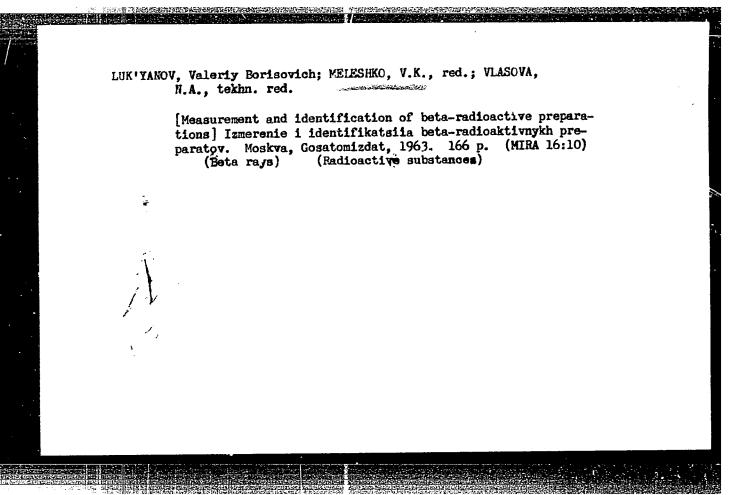
[Digital system (AI-2048) for storing and processing
information] TSifrovala sistema nakopleniia i obrabotki
informatsii (AI-2048). Moskva, Gosatomizdat, 1963. 145 p.

(MIRA 16:9)

(Information storage and retrieval systems)

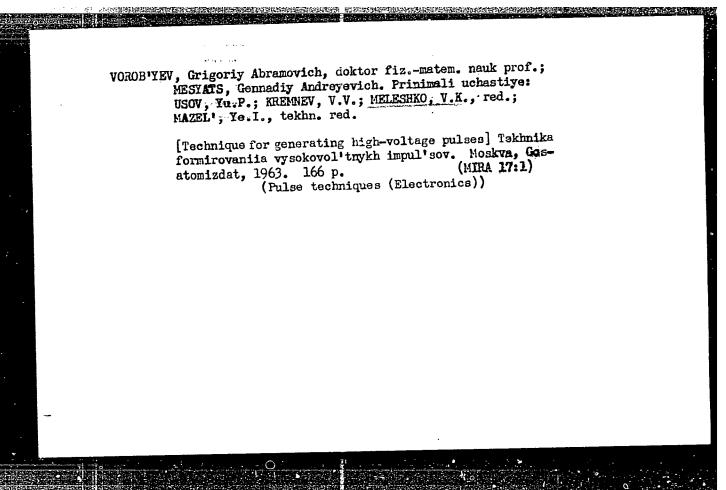
GORN, L.S.; KRASHENINNIKOV, I.S.; KHAZANOV, B.I.; MELESHKO, V.K., red.; VJASOVA, N.A., tekin. red.

[Electronics in nuclear spectrometry] Elektronika v spektrometrii isdernykh izluchenii. [By]L.S.Gorn, I.S.Krasheninnikov, B.I. Khazanov. Moskva, Gomatomizdat, 1963. 291 p. (MIRA 16:3) (Nuclear counters) (Spectrometry)



BABICHE KO, S.I.; BOGDANOV, A.A.; GORN, L.S.; KAGAN, M.L.; KRYLOV, L.N.; OL'DEKOP, L.G.; KHAZANOV, B.I.; MELESHKO, V.K., red.; DRUZHININA, L.V., tekhn. red.; POPOVA, S.M., tekhn. red.

[Radiometric process instrumentation] Kontrol'no-izmeritel'naia radiometricheskaia apparatura. [By] S.I.Babichenko i dr.
Moskva, Gosatomizdat, 1963. 148 p. (MIRA 16:12)
(Radiometry)

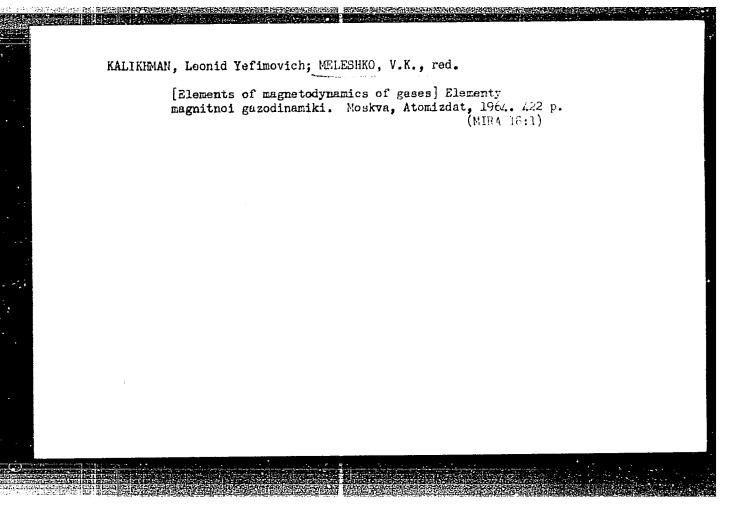


IVANOV, Viktor Ivanovich; KONSTANTINOV, Igor' Yevgen'yevich; MASHKOVICH, Vadim Pavlovich; LELESHKO, V.K., red.

[Collection of problems on dosimetry and protection from ionizing radiations] Sbornik zadach po dozimetrii i zashchite ot ioniziruiushthikh izluchenii. Moskva, Atomizdat, 1964. 134 p. (MIRÁ 17:9)

ABAGYAN, L.P.; BAZAZYANTS, N.O.; BONDARENKO, I.I.; NIKOLAYEV, M.N.;
MELESHKO, V.K., red.

[Group constants for the design of nuclear reactors] Gruppove konstanty dlia raschota iadernykh resktorov. Moskva, Atomizizdat, 1964. 138 p. (MIRA 17:5)



MATALIN, L.A.; CHUBAROV, S.I.; IVANOV, A.A.; MELESHKO, W.K., red.;
VIASOVA, I.A., tekim. red.

[Multichannel pulse analymers in nuclear physics] Mnogokanal malive analizatory ladernoi fiziki. Moskva, Atomizdat, 1964. 226 p. (MIRA 17:3)

GORN, L.S.; KHAZANOV, B.I.; MELESHKO, V.K., red.

[Radiation intensity recorders] Registratory intensimosti izluchenii. Moskva, Atomiziat, 1965. 301 p. (NIRA 18:4)

YECOROV, I.M.; ZHERNOV, V.S.; LAZAREV, A.F.; PEROV, N.L.;
TIMOFEYEV, A.A.; MATVEYEV, V.V., doktor tekhm. nauk,
red.; KHAZANOV, B.I., kand. tekhm. nauk, red.;
MELESHKO, V.K., red.

[Apparatus for recording and studying ionizing radiations; reference book] Apparatura dlia registratsii i issledovaniia ioniziruiushchikh izluchenii; spravochnik. Moskva, Atomizdat, 1965. 429 p. (MIRA 18:7)

22575

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8/133/61/000/001/007/016 A054/A033

AUTHORS:

Chekmarev, A.P., Member of the Academy of Sciences USSR; Saf'yan, M.M., Candidate of Technical Sciences; Meleshko, V.M., Candidate of Technical Sciences; Soroko, L.N., Engineer; Kholodnyy, V.P., Engineer

TITLE:

Heating the Finishing Stand Rolls of Wide Strip Mills

PERIODICAL: Stal', 1961, No. 1, pp. 43 - 46

The frequent breakdowns of rolls in continuous and semi-continuous strip mills are a serious drawback for the increasing productivity of these machines. Breakdowns are mainly due to thermal stresses caused by the non-uniform heating of the rolls. Tests carried out to investigate this problem showed that the heat stresses depend largely on the degree of reduction, the temperature and the length of the strip and the speed of rolling. The thin surface layer of the rolls suddenly becomes heated to up to 102°C, when the strip enters and suddenly because down when the strip leaves the roll. To eliminate the thermal stresses due to sudden temperature changes, the rate of rolling on the finishing stand in the Zaved Zaporozhstal (Zaporezhstal Plant) in the beginning of the working period

X

Card 1/8

22575 S/133/61/000/001/007/016 A054/A033 X

Heating the Finishing Stand Rolls of Wide Strip Mills

is decreased, e.g., the 1,680 mm stand of this plant produces 200 tons in the first hour after the rolls have been changed instead of 400 tons. In order to prevent heat stresses in the rolls and thus to eliminate production losses, the present article suggests the rolls to be preheated before operation to the temperature which corresponds to the normal rolling temperature on the particular stand. For this purpose an inductor has been designed, composed of three coiled cores, two of which are mounted under the roll, the third above it. The inductor is and fed (50 cps, 380 v). The rolls, the ball bearings and supports are connected with this device. In the working rolls of the finishing stand holes were drilled in which thermocouples (three pairs per roll) were fitted. The test results are plotted in Figures 4, 5, 6 and 7, and it was established that six pairs of the sontinuous finishing stand rolls could be preheated effectively, according to the following scheme. Four h before they are mounted on the stand the rolls of stands VIII - IX, then the rolls of stand VI and VII and finally those of stand V and X should be preheated by the inductor described. The heated rolls have to be wrapped in flannel and stored on shelves, so that the temperature will be distributed in them evenly, before they are mounted on the stand. The time available is 3 h for the rolls of stand VIII - IX, 2 h for those of stand VI -VII and 1 h for the rolls of stand V. The rolls of stand X, whose working tem-

Card 2/8

S/133/61/000/001/007/016 Heating the Finishing Stand Rolls of Wide Strip Mills A054/A033

perature is lower than that of the others, are heated only for 25 min and they are rolled over every 12 min. The temperature equalization takes 1.5 h in these rolls. By using a device for rotating the rolls slowly in the inductor, heating can be made more uniform. With preheated rolls mounted on the stand no special "heating up" period for the finishing stand process was necessary and the stands could operate at full capacity after the preheated rolls were mounted. There are 7 figures and 5 references: 1 Soviet and 4 non-Soviet .

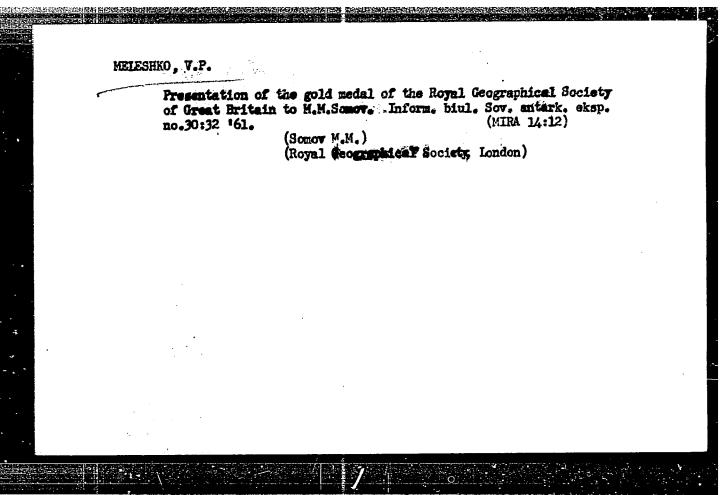
ASSOCIATIONS: Institut chernoy metallurgii AN UkrSR (Institute of Ferrous Metallurgy of the Academy of Sciences UkrSSR); Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute); zavod "Zaporozhstal'" ("Zaporozhstal' Plant)

Card 3/8

CHIKIN, G.A.; MELESHKO, V.P.; KLEYMAN, M.B.; POLISHCHUK, F.M.

Experimental unit for refinery juice purification by means of anion exchange resins. Sakh.prom. 38 no.2:25-31 F '64. (MIRA 17:3)

1. Voronezhskiy gosudarstvennyy universitet (for Chikin, Meleshko).
2. Krasnopresmenskiy sakharo-rafinadnyy zavod im. Mantulina (for Kleyman, Polishchuk).



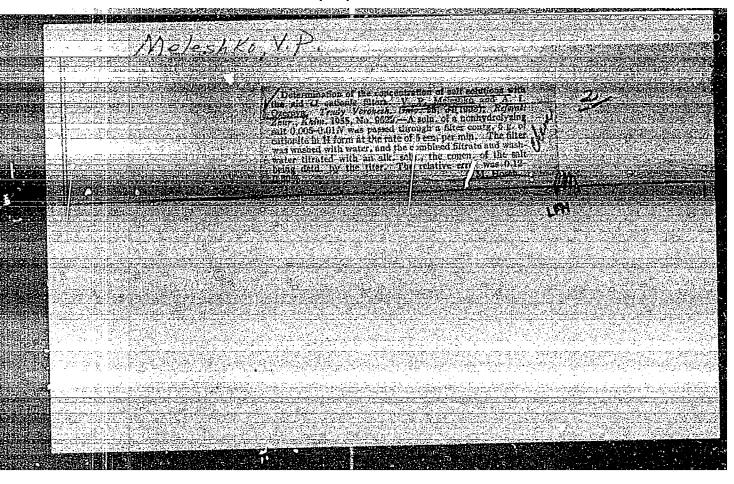
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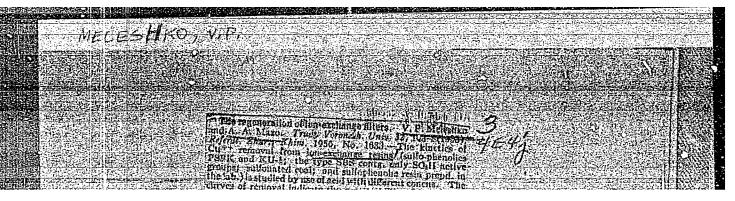
KELESHKO, V.P.; NAZO, A.A.

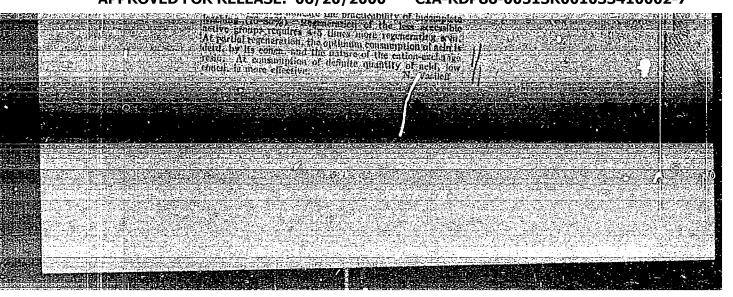
New method of purification of water from armonia. Gig. sanit., Moskva No.1:53-54 Jan 52. (CIML 21:4)

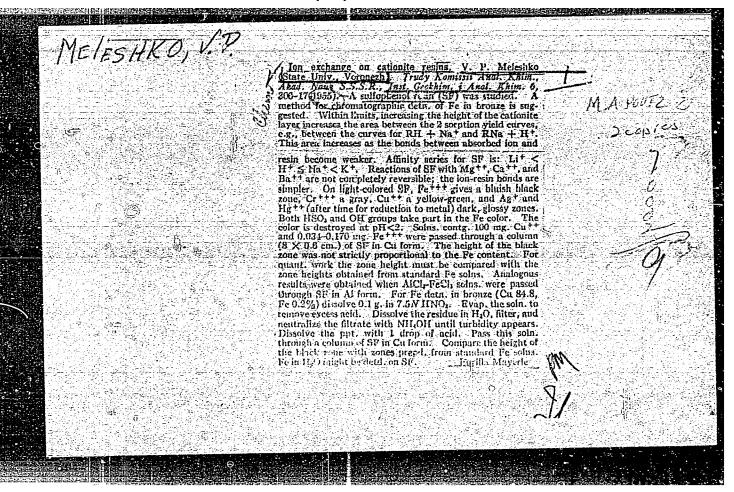
1. Of the Sanitary-Hygienic Laboratory of Southeastern Railroad.

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410002-7









MELESHKO, VIP

USSR/Chemistry - Physical chemistry

Card 1/1

Pub. 22 - 30/54

Authors

Meleshko, V. P., and Voytovich, V. B.

Title

i Relation between ion distribution in a filtering layer of chromatographic piles and the form of output curves

Periodical

. Dok. AN SSSR 102/5, 965-968, Jun 11, 1955

Abstract

An investigation was conducted to determine the relation between the nature of ion distribution in a filtering layer of an ionite chromatographic pile and the form of output curves obtained during the concentration of diluted solutions. The problem was solved by calculating the interchange of two lons of uniform valence and interchange constant. The results obtained are given. Five USSR references: (1948-1953). Tables; graphs.

Institution :

The Voronezh State University

Presented by : Academician A. N. Frumkin, November 17, 1954

CIA-RDP86-00513R001033410002-7 "APPROVED FOR RELEASE: 06/20/2000

Milishko, Y.P.

USSR /Chemical Technology. Chemical Products

H-5

DENNY PROPERTY OF THE PROPERTY

and Their Application

Water treatment. Sewage water.

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1711

Meleshko V.P., Chervinskaya O.V., Romanov M.N. Author

The Use of Anionite Resins EDE-10 and AN-2F for Title

Thorough Desalination of Water.

Teploenergetika, 1956, No 12, 20-23 Orig Pub:

Abstiact: An experimental comparison has been made, under

laboratory conditions, of the anionites TM, AN-2F, PE-9 and EDE-10 to determine their suitability for producing desalinated water required for the technological needs of the radio plant. The experiments revealed the superiority of EDE-10 anionite. On 2-stage, separate H-OH iona-

tion (with Espatit KU-1 as cathionite and EDE-10

Card 1/2

CIA-RDP86-00513R001033410002-7" **APPROVED FOR RELEASE: 06/20/2000**

USSR Chemical Technology. Chemical Products and Their Application Water treatment. Sewage water.

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Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1711

as anionite), a water was obtained the specific resistance of which was of the order of $5 \cdot 10^{6}$ - $6 \cdot 10^{6}$ ohms. Expenditures of alkali and wash water in conjunction with the use of anionites AN-2F and EDE-10 have been determined.

Card 2/2

MELESH KO, V.P.

USSR/Physical Chemistry - Su. 23 c Fhenomena. Admorption.

B-13

Chromatography. Ion Exchange

: Referat Zhur - Khimiya, No 2, 1957, 4015 Abs Jour

: Meleshko V.P. Author

Inst

: Voronezh University : Sulphophenol Cathionite for Chromatographic Analysis Title

: Tr. Voronezhsk. un-t2, 1956, 42, No 2, 67-68 Orig Pub

: Description of the procedure of synthesizing a cathion-Abstract

exchange resin that is light colored and permits visual. observation of movement of chromatographic zones of vatious cathions, aither directly or with the use of rea-gents that produce color reactions with the cathions being separated. To a 40% aqueous solu in of formaldehy-de (I) is added melted phenol sulronic acid (II) at a tem-

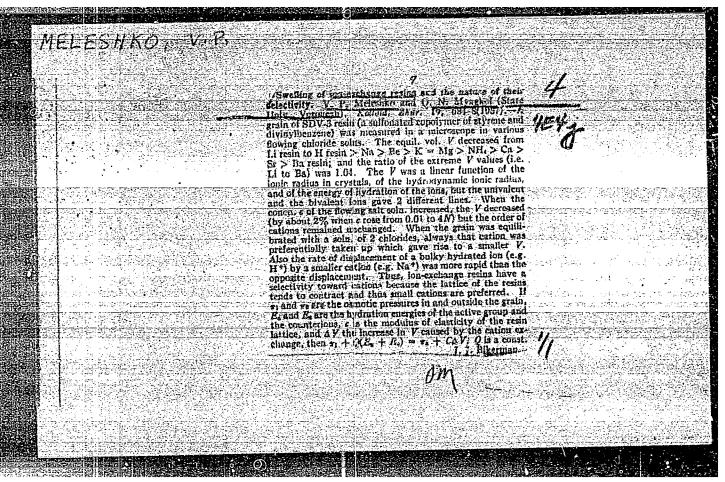
perature 25°. The molar ratio of I:II = 1.5:1 On

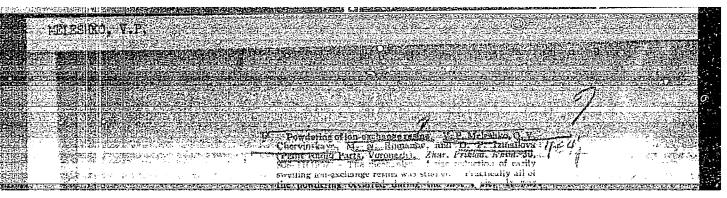
slight heating the mixture thickens, after which it is re-

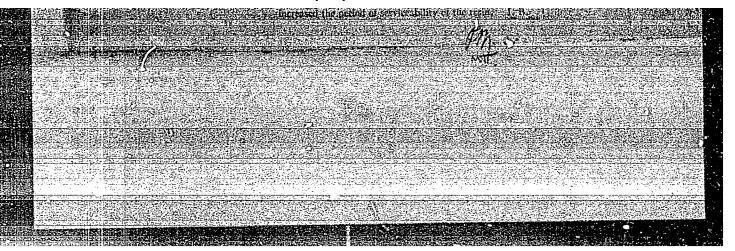
moved, cut into small pieces and treated with 3-5%

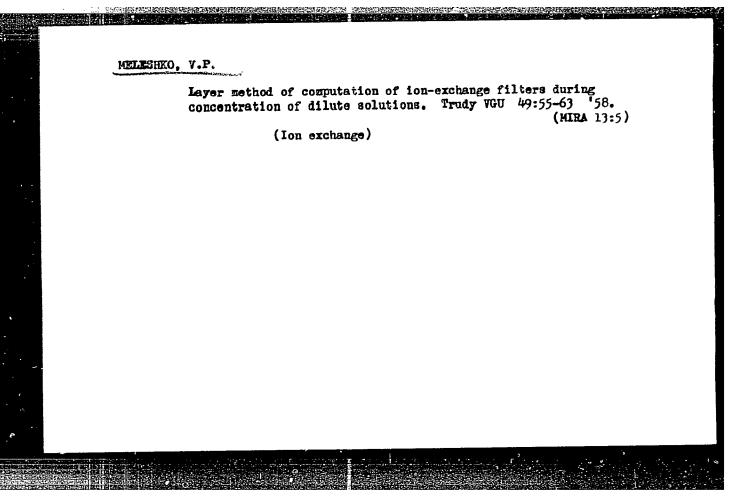
- 232 -Card 1/2

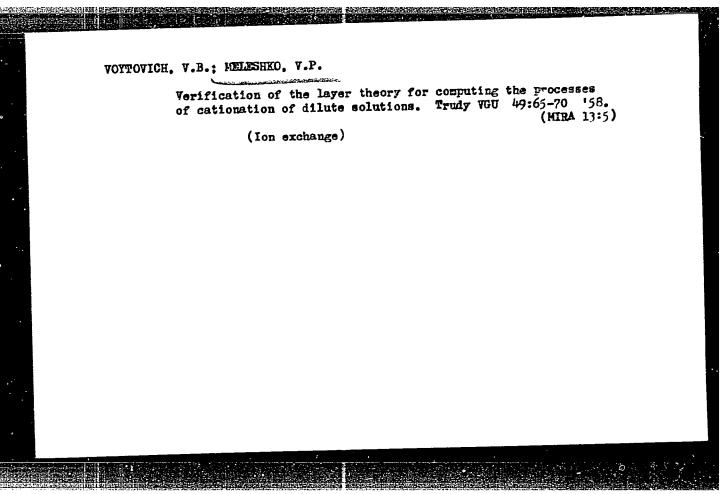
CIA-RDP86-00513R001033410002-7" **APPROVED FOR RELEASE: 06/20/2000**

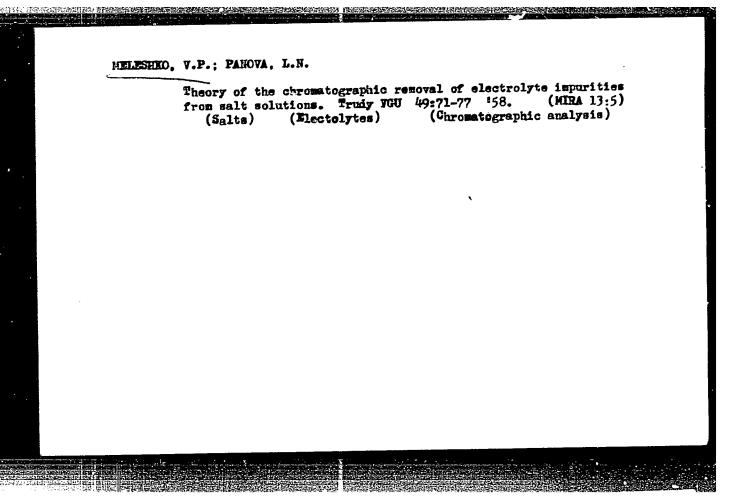












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ACCESSION NR: AR3004187	59
SOURCE: RZh. Khimiya, Abs. 9050	.58
AUTHOR: Voytovich, V. B.; Meleshko, V. P.	
TITLE: Mechanism of the chromatograph	ic separation of rare earth elements
CITED SOURCE: Sb. tr. Voronezhak. otd. Va	ses. khim. o-va im. D. I. Mendeleyeva,
TOPIC TAGS: rare earth, lanthanide, chrom	선생님은 사람들은 전화를 가입니다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 그리는 사람들은
TRANSLATION: Complexes of the In/InA/3 telement, A anion of ethylenediaminetet lenediaminetetraacetic acid solutions of pH values. Such complexes appear in the	the lanthanides are neutralized to his filtrate when the column with the Ln
pH values. Such complexes appear in the form of the cation exchange resin is wash ethylenediaminetetraacetate. The compositrate depends on the ratio of the concent	- Line Property Of The Life Line

1/17193-63 / ACCESSION NR: AR3004187						
filtrate contains only that weakest ethylenediaminetetr bined with a separatory col resin), the Cut 2 ions hind	in the initial solution and the difference in the instability constants of the complexes formed. When the height of the column is sufficiently great, the filtrate contains only that one of the elements to be separated that forms the weakest ethylenediaminetetrascetate complex. When the collector column is combined with a separatory column (filled with the Cu-form of the cation exchange resin), the Cu-2 ions hinder the washing out of the front of the sorption zone and promote the obtaining of the heavier lanthanide element in the pure form.					
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	\$P\$ 1 4 4 4 4 5 5 5 4 5 4 5 5 5 5 5 5 5 5 6 5 6	。 1985年 - 1985年				

SOV/153-2-3-4/29 5(2), 21(5) Meleshko, V. P. AUTHOR: Chromatographic Determination of the Purity and Purification TITLE: of Some Radioisotopes Which Are Used in Chemical Analysis Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya PERIODICAL: tekhnologiya, 1959, Vol 2, Nr 3, pp 328-334 (USSR) Radiochemical preparations which are to be used as "tagged ABSTRACT: atoms" may contain small amounts of equally radiating isotopes of other elements. For examining the degree of purity the author uses the following principle: the solution with the activity I is let through an ion exchanger - cationits or anionite - volume v and activity I of the filtrate are measured. A diagram I/I versus v shows a characteristic curve (Fig 1) which is changed by radiating isotopes of different chemical behavior. The following cases were investigated: The fundamental component is adsorbed, the admixture is not adsorbed (Fig 2), the fundamental component is adsorbed more strongly than the admixture (Fig 3), the admixture is adsorbed more strongly (Fig 4). The apparatus which is used in the laboratory of the Card 1/2

Chromatographic Determination of the Purity and SOV/153-2-3-4/29 Purification of Some Radioisotopes Which Are Used in Chemical Analysis

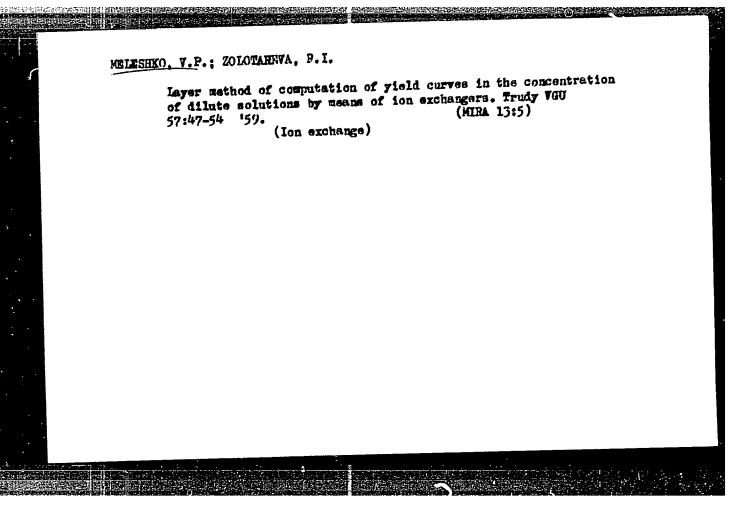
author is represented in a scheme (Fig 5).KU-2 cationite and EDE-1 OP anionite are used as ion exchangers. The experiments were carried out with the isotopes Sr89, Fe⁵⁹, P³² and others. There are 5 figures and 3 Soviet references.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet-Kafedra analiticheskoy

khimii (Voronezh State University - Chair of Analytical Chemistry)

SUBMITTED: May 4, 1958

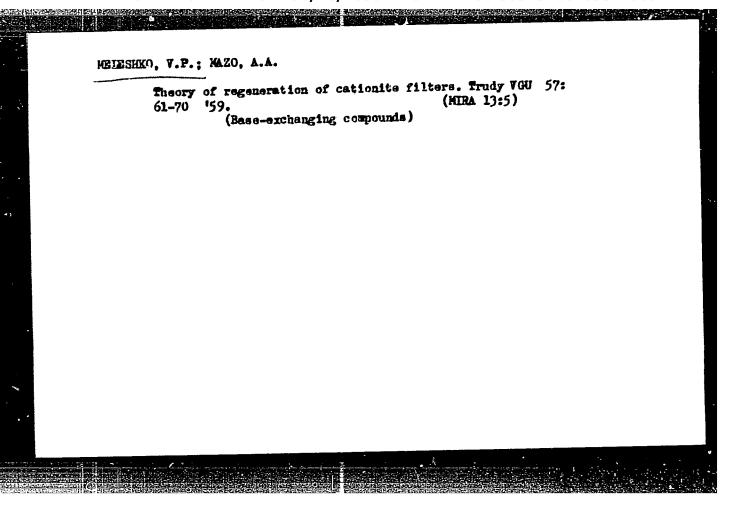
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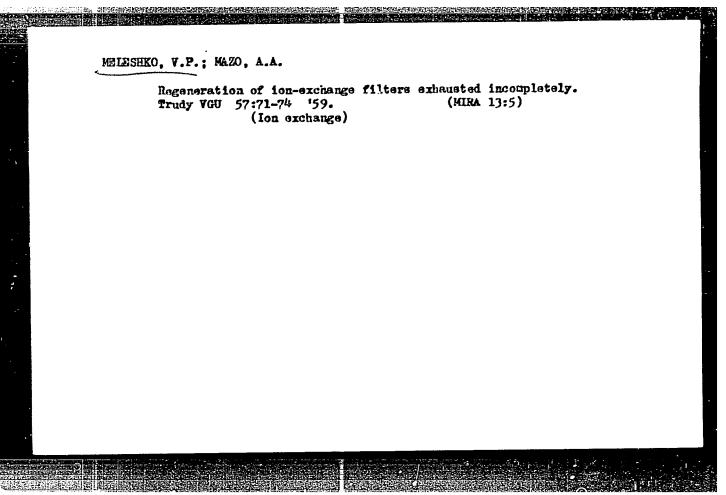


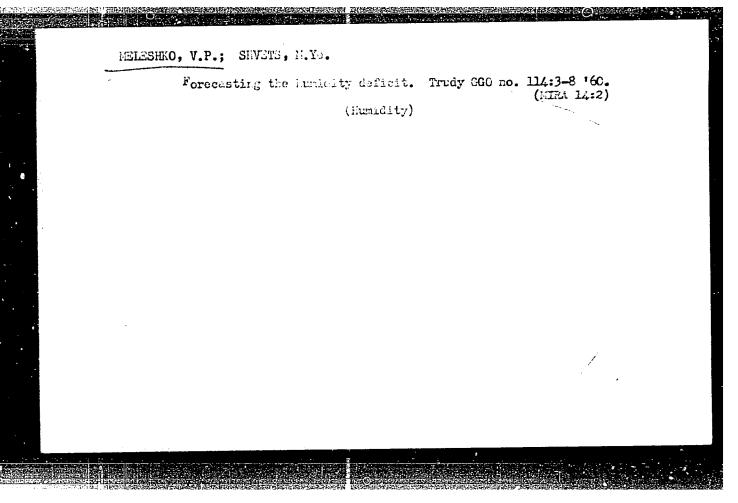
MELESHEO, V.P.; ALEXHINA, V.A.; PAL'KINA, N.S.

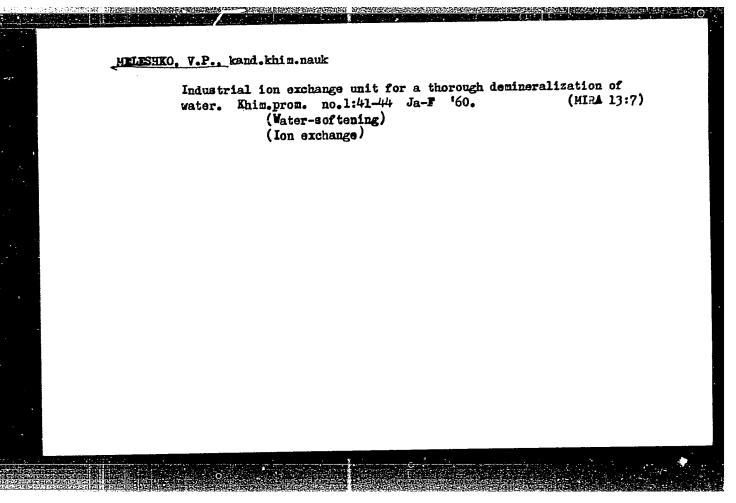
Layer theory of computation of an ion-exchange column for the exchange of two ions of the same valence. Trudy VCU 57: 55-60 - KIT (MIRA 13:5)

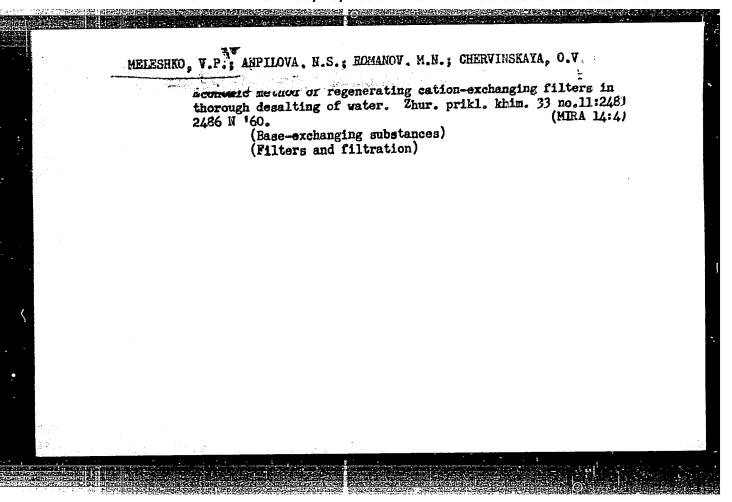
(Ion exchange)











s/081/62/000/012/033/063 B166/B101

11.

AUTHORS:

Meleshko, V. P., Izmaylova, D. R., Chervinskaya, O. V.,

Povalyayeva, L. P., Zolotareva, R. I.

TITLE:

Complete desalting of water on ion-exchange-resin installa-

tions of medium capacity

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 12, 1962, 359, abstract 121310 (Sb. "Issled. v obl. prom. primeneniya sorbentov".

M., AN SSSR, 1961, 223-227)

TEXT: On one of the installations for the deep desalting of water the 3A3-10T (EDE-10P) anion-exchange resin was desilicifying the water poorly due to the active groups of the anion-exchange resin being blocked with HCO3 ions. It was recommended that the desalting installation be provided with a second degasifier to remove CO2 residues and with two desilicifying filters in which the loaded EDE-10P anion-exchange resin is regenerated with 0.24 N NaOH and periodically washed through with 0.5 N HCl to remove the HCO. The desilicifying efficiency and the silicon Card 1/2

CIA-RDP86-00513R001033410002-7" APPROVED FOR RELEASE: 06/20/2000

S/081/62/000/012/033/063
Complete desalting of water ...

Capacity of the anion-exchange resin were greatly increased when this was done. [abstracter's note: Complete translation.]

\$/078/61/006/001/002/019 B017/B054

AUTHORS: Meleshko, V. P., Myagkoy, O. H., Bogatyrev, K. S.

TITLE: Interaction Between Deuterium Oxide Solutions and Cationite

Resin

PERIODICAL: Zhurnal neorganicheskoy khimii, 1961, Vol. 6, No. 1,

pp. 9 - 14

TEXT: The authors studied the possibility of enriching deuterium oxide with the cationite resins Ky-1 (KU-1) and Ky-2 (KU-2). Before use, the resins were transformed into the hydrogen form, thoroughly purified from excess acid, and dried at 125 - 130°C. A 1% deuterium oxide solution was excess acid, and dried at 125 - 130°C. A 1% deuterium oxide solution lasted used as initial solution. The contact between resin and solution lasted used as initial solution. The contact between the free water and the deuterium oxide was irregularly distributed between the free water and the deuterium oxide was irregularly distributed between the free water and the water bound by active groups of the cationite. The deuterium oxide content was lower in bound water than in water situated in the pores and between the resin grains. 1% D₂O solution was brought into contact with KU-2 at 20° or 100°C for 20 - 48 h, and them fractionated. The deuterium content Card 1/2

Interaction Between Deuterium Oxide Solutions S/078/61/006/001/002/019 and Cationite Resin B017/B054

of fractions decreased with decreasing moisture content of the resin. It was found that D₂O concentrated in the outer layer of the hydrate shell of active groups. On the basis of this difference in D₂O concentration in free water and cationite-bound water, the cationite is recommended for enriching deuterium exide. L. S. Pyaterikova and I. T. Kochkina assisted in the experiments. There are 2 figures, 6 tables, and 7 references: 5 Soviet, 1 US, and 1 Canadian.

ASSOCIATION: Voroneshskiy gasudarstvennyy universitet, Kafedra analiticheskoy khimii (Voronesh State University, Department of Analytical Chemistry)

SUBMITTED: October 1, 1959

Card 2/2

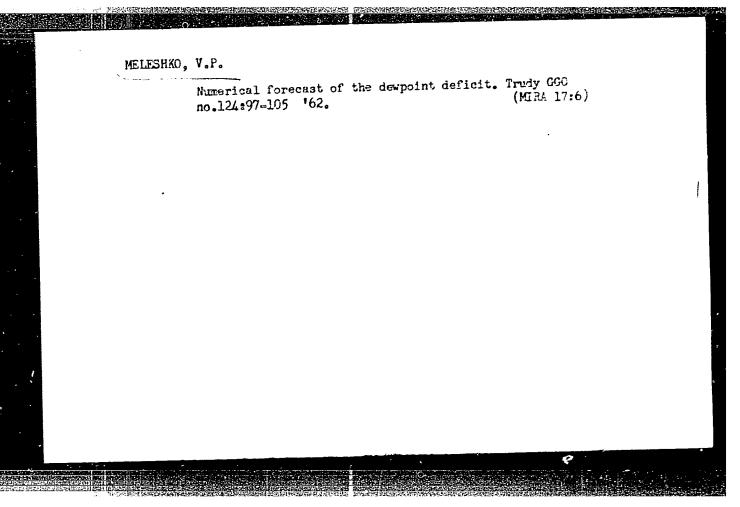
MELESHKO, V.P.: VOYTOVICH, I.M.; CHIKIN, Q.A.

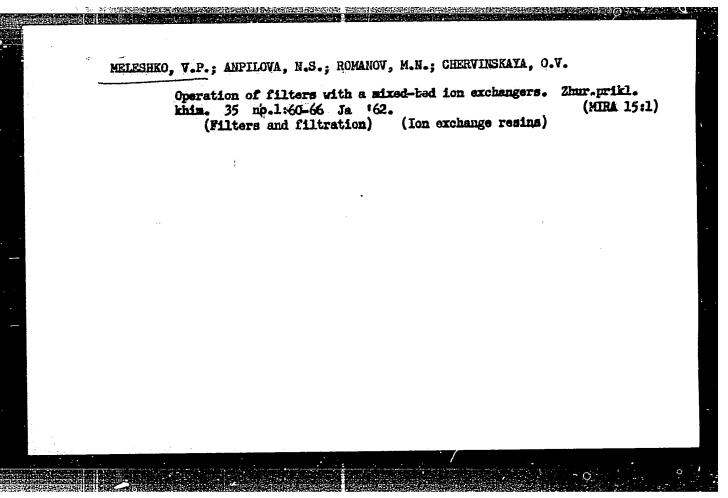
Ion-exchange sorption of nonsugars and coloring matter from molasses solutions. Sakh. prom. 35 no. 1:30-33 Ja '61.

(MIRA 14:1)

1. Vornoezhskiy sovnarkhoz.

(Molasses) (Ion exchange)





SAPRONOV, A.R.; CHIKIN, G.A.; MELESHKO, V.P.; KLOCHKOVA, T.A.

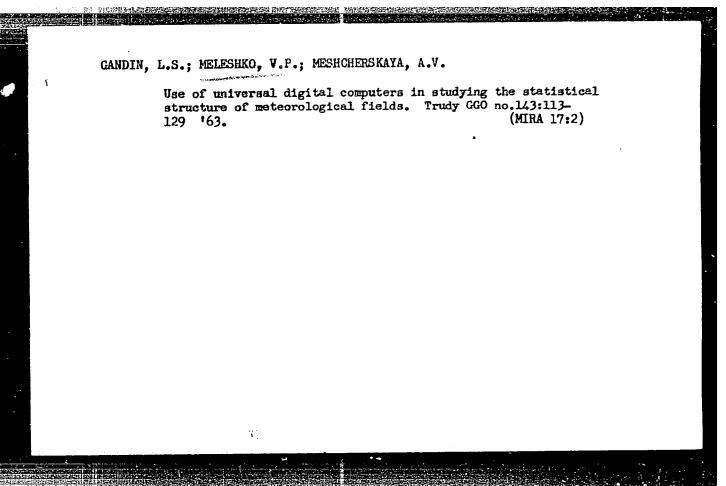
Sorption of dyeing substances by ion exchanges. Sakh.prom. 36 no.11:
15-17 N '62. (MIRA 1722)

1. Voronethskiy tekhnologicheskiy institut (for Sapronov). 2. Laboratoriya iohoobmennykh protessov Voronethskogo soveta narodnogo khozyaystva (for Chikin, Meleshko, Klochkova).

MELESHAO, V.P.; YEGOROVA, N.P.

Use of molasses as raw material for the production of glutamic acid. Sakh, prom. 36 no.12:5-6 D *62. (MIRA 16:6)

1. Voroneshskiy gosudarstvennyy universitet. (Glutamic acid) (Molasses)



"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001033410002-7

s/080/63/036/001/014/026 Meleshko, V.P., Izmaylova, D.R., Chervinskaya, O.V. and Anpilova, N.S. Characteristics of the regeneration of anionexchanging resins of various types AUTHORS: Zhurnal prikladnov khimii, v. 36, no. 1, TITLE: The present work was motivated by the incom-TEXT:

pleteness and lack of systematization of literature dealing with

the shows subject 1963, 130 - 134 pleteness and lack of systematization of literature dealing with the regeneration of the the above subject, and is concerned with the regeneration of an 2-100 and industrial amontant soulet industrial amontant. PERIODICAL: the above subject, and is concerned with the regeneration of the more important Soviet industrial anionites; AN-16 and AV-17). The AR-16 and AR-17 (AN-1 AN-2F EDE-10P AV-16 and AV-17). more important Soviet industrial anionites; An-1, An-2w, JUJ-N
AB-16, and AB-17 (AN-1, AN-2F, EDE-10P, AV-16 and AV-17). The resins were prepared by treatment with sat. NaCl, washing with resins were prepared by treatment with sat. NaCl. washing with threefold successive washing with 5 threefold successive washing with 5 water, packing into a column, and finally by washing with 5 and finally by washing with 5 water, packing into a column. In the regeneration of NaOH, and 0.02 N HCl. and finally by washing with 5 water, packed into of the resin thus prepared were then packed into tests. Samples of the resin thus prepared were then packed into tests. volumes of distilled H2O per vol. of resin. In the regeneration tests, samples of the resin thus prepared were then packed into Card 1/2

s/080/63/036/001/014/026 D204/D307

Characteristics of ...

0.8 cm dia x 40 mm long columns and were treated with 0.25, 0.5, 1.0 and 2.0 N NaOH, flow rate being 5 m/hr. The filtrate was titrated for Cl with AgNO₃. 'Regeneration curves' of filtrate volume plotted against the Cl content were then constructed. The most economic regenerating solution was found to be 0.25 N NaOH for all resins, with the exception of AV-17 for which C.5 - 1.0 N NaOH should be used. The volumes of regenerator necessary to remove the adsorbed ions varied from 1.25 - 1.5 equivalent volumes for AN-2F, EDE-10P, and AV-16, to 10 equivalent volumes for AV-17. It is considered that the regeneration curves are one of the more important properties in estimating the economic and operating indices of ionites. Application of these results to the deionization of water shows that the preferred ionite would be EDE-10P, in spite of its cost. There are 2 figures and 1 table.

SUBMITTED:

November 20, 1961

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51 50

AUTHOR: Meleshko, V. P.; Myagkoy, O. N.

TITLE: Permeability of ionic membranes in relation to light and heavy water

SOURCE: AN SSSR. Doklady, v. 150, no. 4, 1963, 842-844

TOPIC TAGS: ionic membranes, heavy water, deuterium oxides, protium oxides, polystyrole sulfate

ARSTRACT: This work was performed to show the connection between the degree of swelling of ion exchange membranes and their penetration in relation to the oxides of deuterium and protium. The ion exchange resins and ionic membranes in their structure do not have pores as such, and the diffusion of water molecules through the membrane is a result of its swelling by means of hydration of active groups and neutralization of its mobile ions. The experimental study of the penetration of membranes was obtained with a polystyrole sulfate cationic membrane in various salt forms. Pure H sub 2 0 and pure D sub 2 0 and their mixtures containing 25, 50 and 75% D sub 2 0 were used. It was found that, with an increase of D sub 2 0 in the initial solution, the penetration through the

Card 1/2

L 12416-63 ACCESSION NR: AP3001110 membrane decreases. Thus, the molecules of H sub 2 0 penetrate the membrane more readily and the diffused portion of the mixture is partially enriched with protium oxide. With an increase of temperature, the penetration increases and the differences between the penetration of light and heavy water decrease. The penetration of ionic membrane as shown in the graphs is determined by its swelling. It follows that the selective penetration of the fonic membrane with the light water and the effect of non-uniform distribution of H sub 2 0 and D sub 2 0 in the swelled ionite are of an equal nature. Orig. art. has: 4 figures. ASSOCIATION: Voronezhskiy gosudarstvennyky universitet (Voronezh State SUBMITTED: 03Mar63 DATE ACQ: 01Ju163 ENCL: 00 SUB CODE: 00 NO REF SOV: 013 OTHER: 003 2/2 Card

S/2531/64/000/151/0032/0040

ACCESSION NR: AT4043146

TITLE: Numerical forecasting of cloud cover and precipitation with allowance for trans-AUTHOR: Meleshko, V. P.

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy*, no. 151, 1964. formation of an air mass

Voprosy* chislennogo analiza i prognoza pogody* (Problems in numerical analysis and

TOPIC TAGS: meteorology, weather forecasting, numerical weather forecasting, cloud, forecasting), 32-40

precipitation, air mass

ABSTRACT: Until now, the numerical forecasting of cloud cover and precipitation has usually been based on adiabatic models because there are considerable difficulties involved in taking heat and moisture fluxes into account. In this paper the author takes into account the nonadiabatic character of atmospheric processes in numerical forecasting of cloud cover and precipitation. As the initial equations the author uses the equations of moisture and heat transport and the heat balance equation for the underlying surface. In the derivation of prognostic equations the author uses the condition of a thermotropic state

CIA-RDP86-00513R001033410002-7" **APPROVED FOR RELEASE: 06/20/2000**

ACCESSION NR: AT4043146

in the layer from the earth to the 700-mb surface. It is shown that failure to take into account condensation heat fluxes, and especially moisture fluxes, in the cold season of the year can lead to appreciable errors in the forecasting of the cleud cover. This is not true of forecasts of precipitation because at temperatures below 0C the quantity of moisture in the atmosphere is small; therefore, the error in computation of the quantity of condensing moisture plays no significant role. The execution of the required computations on a high-speed computer is described. The preliminary results show that when the nonadiabatic character of atmospheric processes is taken into account there is an appreciable improvement in the forecast of the cloud cover in comparison with an adiabatic forecast for a day in advance. Orig. art. has: 49 formulas and 3 tables.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya, Leningrad (Main Geophysical Observatory)

SUBMITTED: 00

ENCL: 00

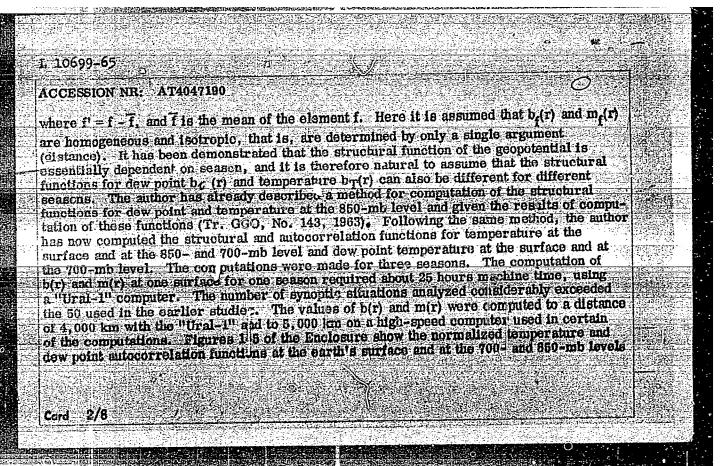
SUB CODE: ES

NO REF SOV: 009

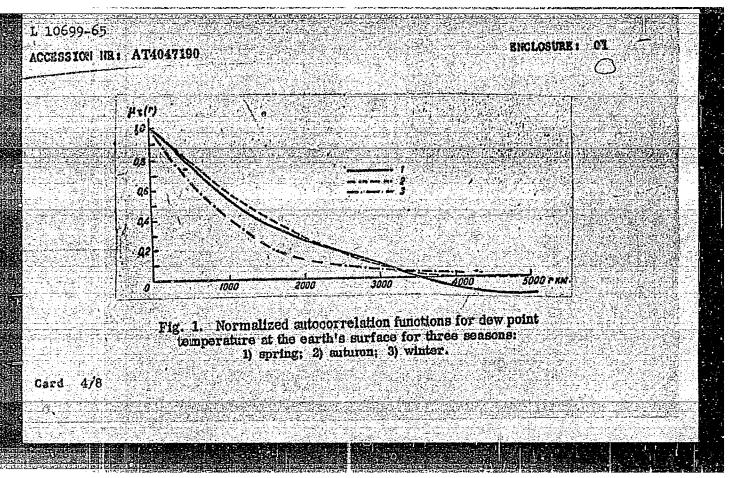
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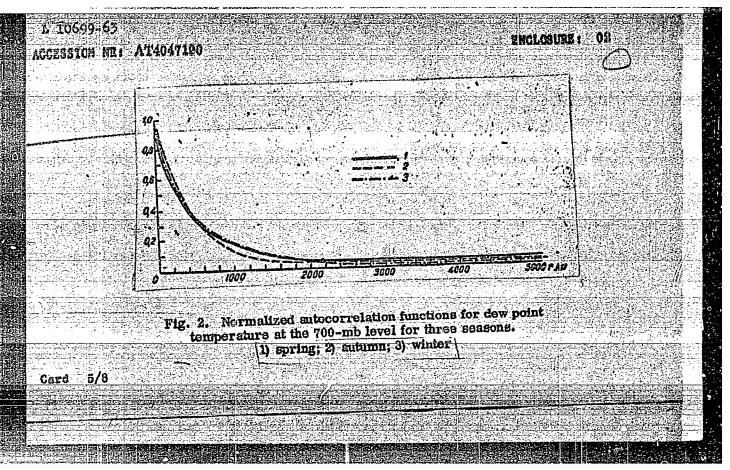
Card 2/2

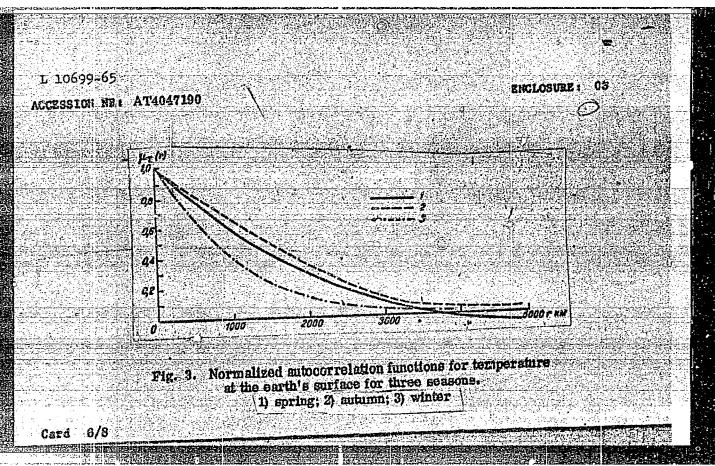
<u>l 10699-65</u> EWT(1)/FCC	AVETR GW	
ACCESSION NR: AT4047190	8/2531/64/900/193/0040/0040 / J	
AUTHOR: Meleghko, V. P.; (TITLE: Computation of some humidity fields	statistical characteristics for the temperature and	
SOURCE: Leningrad. Glavna Primeneniye statisticheskikh n meteorology), 40-46 TOPIC TACS: meteorology, field, dew point	ya geofizicheskaya observatoriya. Trudy*, no. 165, 1964. netodov v meteorologii (Use of statistical methods in / atmospheric temperature field; atmospheric humidity	
ABSTRACT: This article is statistical characteristics of d Toe following structural functions of the characteristics of the characteristi	a continuation of the author's earlier investigations of the lew point and temperature (see Tr. GGO, No. 114, 1960). Ion and autocorrelation functions were used as the principal the statistical structure of the dew point 2 and temperature	
fields	$b_{f}(\delta r) = \left[f'(\overline{r}) - f'(\overline{r} + \delta \overline{r}) \right]^{2} $ $m_{f}(\delta r) = \overline{f'(\overline{r}) f'(\overline{r} + \delta \overline{r})} $ (2)	

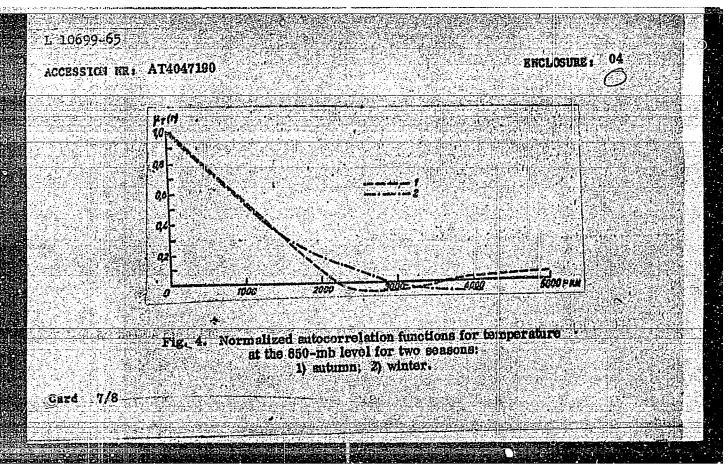


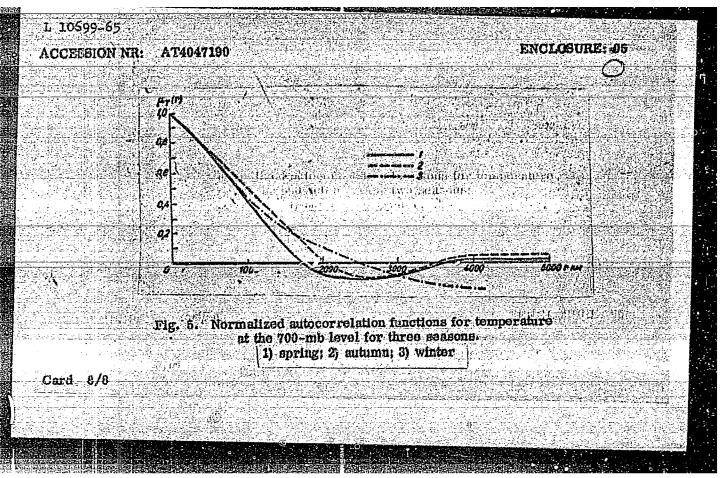
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ACCESSION NR: AT4047190			
ions for temperature co listances. However, the unctions for relatively s	nvincingly commined the in- s structural (autocorrelation hort distances. Orig. srt.	he structural and autocorrelat war change of these functions n) functions for dew point are n has: 8 formulas, 5 figures a	ot linear of 4 tobles.
ASSOCIATIO! (; Glavnay Observatory)	a geofizichoskaya observat	oriya, Limingrad (<u>Main Geoph</u>	/Blost
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		ियो प्रकृतिक प्रकृति । विकास के देवी विकास के प्रकृति के विकास के किया है जिसके के किया के किया किया के प्रकृति हैं	



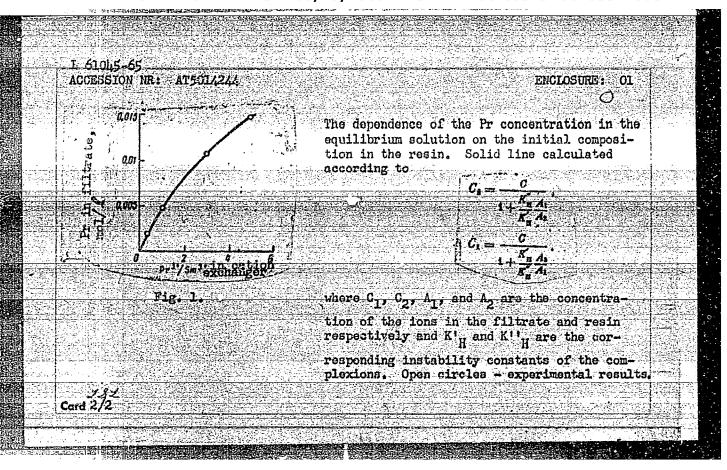








I 61045-65 EMT(m)/EMT(t)/EMT(t) IF(c) IS/ID/GS/EM ACCESSION NR: AT5014244 AUTHORS: Voytovich, V. B.; Malashko, V. P. TITLE: On the theory of chromatographic separation of the rare earth elements 166 41,557 2 SOURCE: AN SSSR. Institut fizicheskoy khimiii Toncobmennaya tekhnologiya (Ion exchange technology). Moscow, Izd-vo Nauka, 1965, 42-48 TOPIC TAGS: rare earth element, rare earth chelate, chromatography, ion exchanger, ion exchange, ion exchange resin ABSTRACT: (Separation of the pairs of ions Pr-Sm and Pr-Er by the cation exchange resin KU-2 using a 0.5% EDTA (ethylene diamintetracetic acid) solution (pH 7.6) as eluent was studied in order to verify the theoretically derived expressions for the partition constant. The experimental results, shown in the graph, (see Fig. 1 on the Enclosure) are in good agreement with the theory. The theoretical expressions are applied to a three-component system Eu-Y-Er, and good agreement between experiment and theory is observed. A reaction mechanism for the separation process is discussed. Orig. art. hast 4 graphs and 30 equations. ASSOCIATION: none SUB CODE: IC, GC ENOL: OL OTHER: OLO SUBMITTED: 26Feb65 No ref sovi 013 Card 1/2



KOTLYAR, D.K.; MUGUYEV, G.D.; MELEZHIK, V.P.

In the State Committee of the Council of Ministers of the Ukrainian S.S.R. for the coordination of scientific research. Nat. 1 gornorud. prom. no.3:83-85 My-Je *65.

(MIRA 18:11)

SHVETS, M.YO., MELESHEO, V.P.

the describing the hydrodynamics of the atmosphere. Izv. AN SSR. Fiz. atm. i okeana 1 no.9:893-896 S 165. (MIRA 18:9)

1. Glavnaya geofizioneskaya observatoriya imeni Voyeykova.

USSR/Ruclear Physics - Instruments and Installations Methods of Measurement and Investigation

C-2

Abs Jour

Referat Zhur - Fizika, No 1, 1958, 242

Author

Korshunov, Yu.V., Meleshko, Ye.A., Panosyuk, V.S.

Institute of Atomic Energy, Academy of Sciences, USSR.

Inst

Instrument for Observation of the Distribution of Current

Title

of Accelerated Ions on a Cyclotron Target.

period that we want

Orig Pub

Pribory 1 tekhn. eksperimenta, 1957, No 2, 23-24

Abstract

To determine the distribution of current in a beam of accelerated lons over the area of the target, one employs usually a special probe, consisting of 10 -- 15 laminas, grounded through calibrated resistances, on which one measures by means of an indicator in sequence the voltage drop due to the current of accelerated ions. The authors describe a circuit, with which it is possible to observe

Card 1/2

CIA-RDP86-00513R001033410002-7 APPROVED FOR RELEASE: 06/20/2000

SOV-120-58-1-7/43

AUTHORS: Antonov, A. V., Korshunov, Yu. V., Meleshko, Ye. A. and Panasyuk, V. S.

TITLE: Stabilisation of the High Frequency Voltage on the Dee of a Cyclotron (Stabilizatsiya napryazheniya vysokoy chastoty na duante tsiklotrona)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 1, pp 41-46 (USSR)

ABSTRACT: Nuclear reaction studies which are being carried out at the present time require high stability in cyclotron parameters. The following quantities require stabilisation: intensity of the magnetic field, frequency of the h.f. voltage which is applied to the dee, amplitude of the h.f. voltage on the dee and the magnitude of the reflecting potential. It is also desirable to stabilise the ion current from the source. Thus the stabilisation of the dee potential must be looked upon as one of a set of problems associated with the stabilisation of the cyclotron parameters. A comprehensive dee voltage stabilisation should include a stabiliser of the dee voltage relative to the earth as well as

Card 1/2

SOV-120-58-1-7/43

Stabilisation of the High Frequency Voltage on the Dee of a Cyclotron.

an inter-dee voltage stabiliser. A description is given of the principle and a circuit of an amplitude stabiliser for the h.f. voltage on one of the dees. The stabiliser can be used either continuously or with a modulated signal. The circuit diagrams are given in Figs. 3 and 5. The h.f. voltage stabiliser was applied to the "attracting" dee and was tested on a working machine. Introduction of the stabiliser led to a real improvement in the stability of the ion beam at the cyclotron target. In addition, destabilising factors such as random surges are eliminated which ensures smooth running of the machine. The regulation characteristic is given in Fig. 4. I. P. Vyazovetskiy, D. A. Kuznetsov, V. Z. Loskutov, R. A. Ariskina, B. V. Rybakov and V. A. Sidorov collaborated. There are 5 figures and 7 Soviet references.

SUBMITTED: June 15, 1957.

Voltage stabilizers--Performance
 Voltage stabilizers--Circuits

Card 2/2

\$/058/61/000/007/007/086 A001/A101

AUTHORS:

Antonov, A.V., Korshunov, Yu.V., Meleshko, Ye.A., Nemenov, L.M.,

Panasyuk, V.S.

TITLE:

Ferrite frequency changer for conversion of a cyclotron to the

phasotron system of acceleration

PERIODICAL:

Referativnyy zhurnal. Fizika, no. 7, 1961, 37-38, abstract 7B34 (V

sb. "Uskoriteli", Moscow, Atomizdat, 1960, 60 - 72)

TEXT: In order to bring about the proposal on the conversion to the phasetron operation of acceleration of the mass-produced cyclotron with the diameter of electromagnet poles 1,200 mm and to produce 30-Mev protons (instead of 12.6 Mev) in it, the frequency in the acceleration process must be changed by about 5%. The authors have constructed; for modulation of cyclotron frequency, a circuit with ferrite core and radio engineering equipment connected with it. The change of resonance frequency of the dee circuit is brought about by connecting with it an inductance with ferrite core and excitation of the core by alternate current with a frequency equal to that of acceleration cycles. The problem of selecting the ferrite and the method of connecting the circuit with the fer-

Card 1/2

Ferrits frequency changer ...

3/058/61/000/007/007/086 A001/A101

rite are discussed. The equipment was tested by acceleration of deutrons. Frequency variation in this case amounted to 1.8%. At the final diameter the average stream of deutrons with 2 - 3 mamp was obtained. The current pulse amounted to 60 - 90 mamp.

A. Talyzin

[Abstracter's note: Complete translation]

Card 2/2

33137

5/120/61/000/006/003/041

E032/E114

AUTHORS:

Korshunov, Yu.V., and Meleshko, Ye.A.

TITLE:

A magnetic ring for the measurement of ion current

in a beam extracted from a cyclotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1961,

TEXT: The beam current measuring device described by the present authors is similar in principle to those described by L. Bess and A.O. Hanson (Ref.1: Rev. Scient. Instrum., 1948, 19, 108) and I.A. Grishayev, N.I. Mocheshnikov and V.F. Ivanov (Ref. 2: PTE, 1960, no. 4, 17). The present device includes a ferrite core. The beam passes freely through it and the device has no effect upon it. The principle of the device is illustrated in Fig.1, in which 1 is the ion beam, 2 is the magnetic ring, 3 the amplifier, and 4 the output meter. A schematic drawing of the detector itself is shown in Fig.2 (1 - envelope, 2 - teflon insulator, 3 - magnetic ring, 4 - retaining ring, 5 - flange of ion beam pipe, 6 - lead diaphragm). The magnetic ring is made of HU-800 (NTs-800) ferrite (μ = 800) and carries 5 turns of copper deposited directly upon it. The outer diameter of the ring is Card 1/

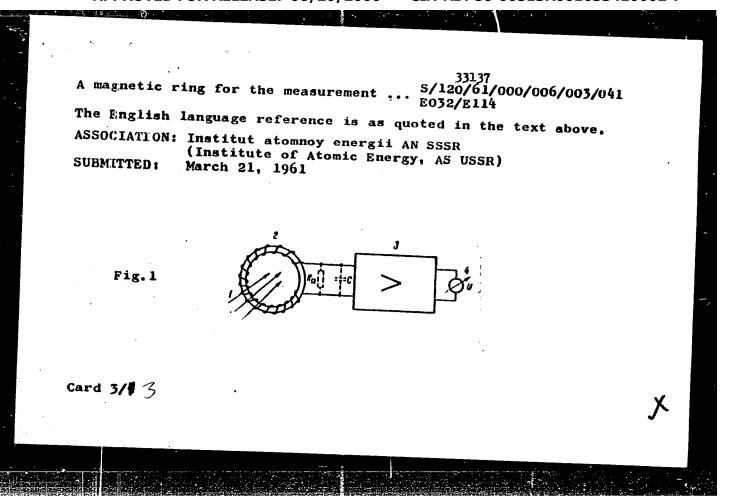
CIA-RDP86-00513R001033410002-7" APPROVED FOR RELEASE: 06/20/2000

33137 A magnetic ring for the measurement... \$/120/61/000/006/003/041 E032/E114

120 mm, the inner diameter is 85 mm. At high frequencies (10 Mc/sec or more) there is considerable damping in the circuit formed by the ring and the capacitance to earth C (Q ~1.5-2). This means that the device can be used in a wide frequency range without retuning. Two types of amplifier were employed. The first was a tuned amplifier with a bandwidth of 4 Mc/sec, and the second was a narrow band device based on the superheterodyne principle. The former had the disadvantage of high noise level and was used for large currents; the latter was designed for small currents. Currents of the order of 1 microampere or more can be measured to an accuracy of about 5%. Lower accuracy obtains at lower currents. Preliminary experiments on the irradiation of the ferrite by deuterons (1 µamp/cm2 at 19.6 MeV for 12 hours) showed that the ferrite was practically unaffected by the irradiation. However, it is stated that this is only a preliminary result.

Acknowledgments are expressed to V.S. Panasyuk for suggesting this subject and to A.V. Antonov for discussions and advice. There are 2 figures and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc.

Card 2/



ANTONOV, A.V.; KORSHUHOV, Yu.V.; MELESHKO, Ye.A.; NEMENOV, L.M.;

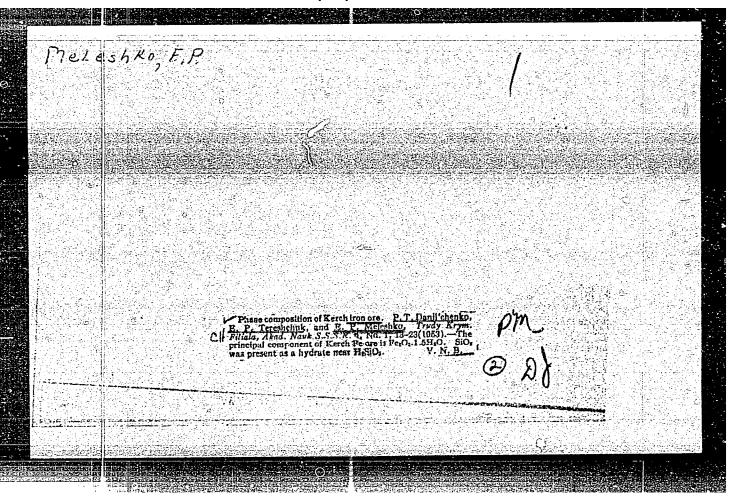
FAMASTUK, V.S.;

[Ferrite frequency variator for changing from a cyclotron to a synchro-cyclotron mode of acceleration]

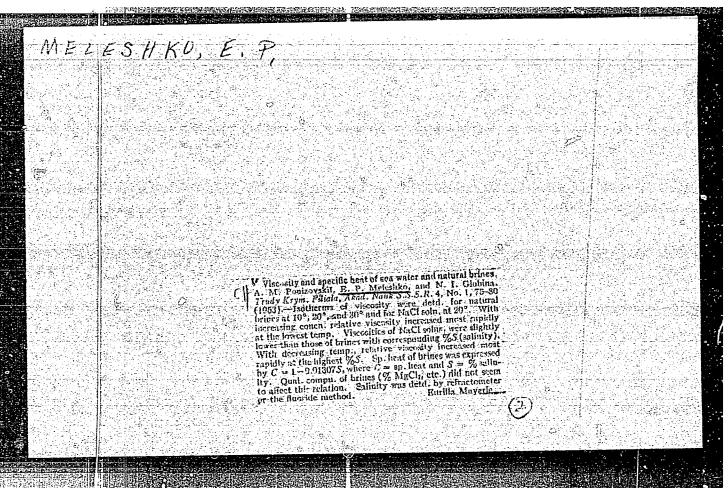
Ferritowi variator chastoty dlia perevoda tsiklotrona v fazotromyi rezhim uskoreniia. Moskva, Glav. upr. po ispol'zovaniiu atomnoi energii, 1960. 18 p.

(MIRA 17:2)

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410002-7



"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410002-7



Meleshko, Ye.P.

Fonizovskii, A.M.; Meleshko, Ye.P.

On the geochemistry of boron in salt reservoirs of the Crimea
[with summary in English]. Geokhiwiia no.7:642-644 '57.

(MIRA 11:1)

1.Institut mineral'nykh resursov AN USSR, Simferopol'.

(Grimea--Boron)

PONIZOVSKIY, A.M.; MELESHKC, Ye.P.; VIADIMIROVA, N.M.

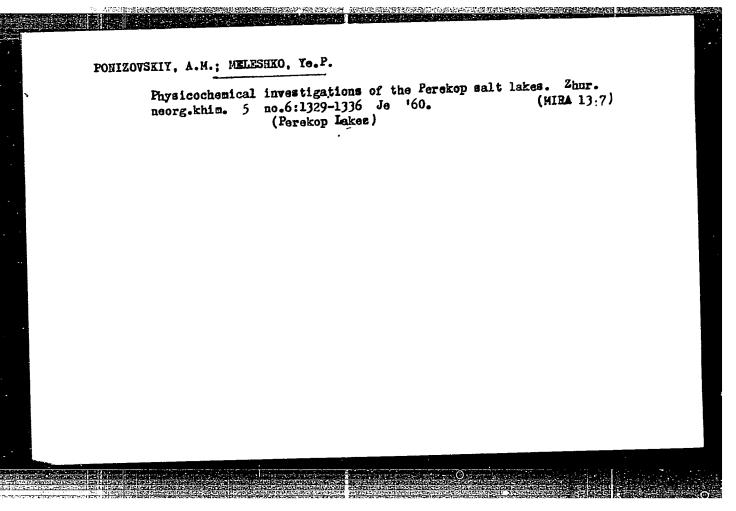
Hydrochemistry of salt lakes in the Kerch Peninsula.

Izv.vys.ucheb.zav.;geol.i razv. 3 no.2:125-134 F '60.

(MIRA 15:5)

1. Institut mineral'nykh resursov AN USSR.

(Kerch Peninsula—Salt deposits—Analysis)



33148

S/120/61/000/006/016/041 E032/E114

26.2312

Bolotin, L.I., Markin, P.S., and Meleshkov, S.I.

AUTHORS:

A pulse source of multiply charged ions with

magnetic beam separation

PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1961, 86-88

TEXT: The source is capable of producing multiply charged ions with energies up to 40 kV, focussed into a spot 15 mm in diameter. The beam currents are as follows: 14 mA (N+4), 1.5 mA (N+3), 2 mA (N+2). The multiply charged ions are produced in the plasma of a high-power arc discharge. The source is illustrated schematically in Fig.1a (1 - stainless steel, illustrated schematically in Fig.1a (1 - stainless steel, 2 - porcelain, 3 - titanium). The anode is made of copper and the cathode of titanium. Water cooling is not necessary. The anode is insulated from the cathode by porcelain insulators and the position of the stainless steel extractor can be adjusted without releasing the vacuum. The discharge chamber is placed in a magnetic field of 4000 0e produced by 100° sector electromagnet with a gap of 10 cm (average radius of ion trajectory 15 cm).

33148 S/120/61/000/006/016/041 E032/E114

的现在分词 100mm 100mm

A pulse source of multiply charged...

The symmetric disposition of the cathode relative to the anode leads to a longitudinal oscillation of the ionizing electrons which reach their maximum energy at the mid-point of the discharge channel (length 40 mm, diameter 8 mm). The slit through which the ions are extracted (15 \times 2 mm) is placed in the latter position. The location of the source in the magnetic field is such that the extracted ions will have travelled through one quadrant when they leave the magnetic field in the 90° focal plane. Thus, ions with equal e/m have parallel trajectories, which facilitates the subsequent formation of the beam. The discharge is excited by 10 kW square pulses. The extraction is achieved by means of 40 kW square pulses. The discharge and extracting pulses are synchronized with the aid of a two-channel delay line. The system is evacuated by two diffusion pumps M-1000 (M-1000) (3 x 10-6 mm Hg in the accelerating tube). There are 3 figures, 1 table and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The English language references read as follows:

Card 2/3

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33148

A pulse source of multiply charged .. \$\frac{\\$5/120/61/000/006/016/041}{\\$E032/\\$E114}

Ref.1: R.J. Jones, A. Zucker.

Rev. Scient. Instrum., 1954, v.25, no.6, 562.

Ref. 2: C.E. Anderson, K.W. Ehlers.

Rev. Scient. Instrum., 1956, v.27, no.10, 809.

SUBMITTED: April 28, 1961

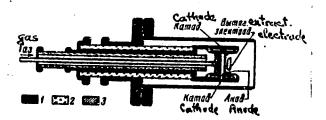


Fig. la

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S/12/61/000/006/017/041

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E032/E114

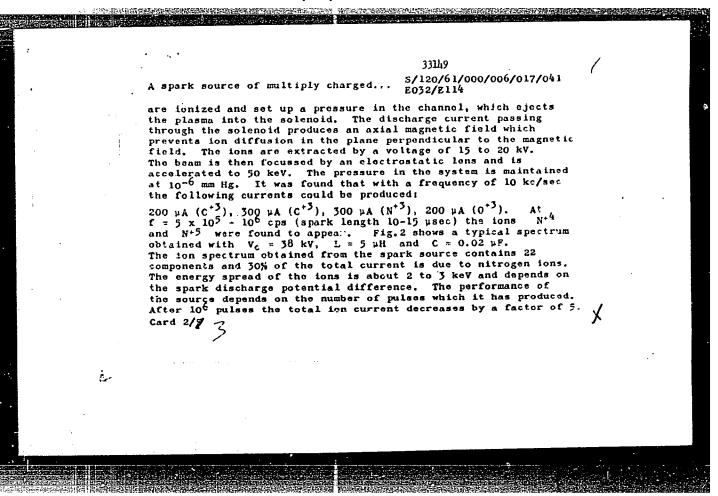
AUTHORS: Belotin, L.I., Markin, P.S., Kulygin, Yu.F.,
Skorommyy, G.M., and Meleshkov, S.I.

TITLE: A spark source of multiply charged ions

FERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1961, 88-90

TEXT: A.A. Plyutto, K.P. Kervalindze and I.F. Kvartskhava

(Ref.2: Atommaya energiya, v.5. no.8, 1957. 193) have described a spark source producing large currents of multiply charged ions of various elements with a total ion current of 1 amp. The aim of the present work was to improve the spark source so that it can be used to obtain large currents of N*4 and C*4 suitable for injection into a linear accelerator. The source is illustrated schematically in Fig.! and differs from that described in Ref.2. The spark discharge takes place in the Aln channel, which means that one can use both positive and negative half-periods of the oscillatory circuit supplying the spark, and exclude ions of elements present in the porcelaint tube. During a high-power discharge, the products of decomposition of Aln Card 1/9.



A spark source of multiply ... S/120/61/000/0006/017/041

E/02/26114

The maximum current which can be obtained with the AlN discharge channel is 15 mA. The source produced 100 µA of N^{t4} in a pulse of 19 µsec and 300 to 500 µA of N^{t3} and C^{t3} in a pulse of 500 µsec. The power consumed by the source and the ion-optical system is 500 W. The present results differ from those reported in Ref.2. The difference is ascribed to the fact that the present authors measured the true current (i.e. the current beyond the focusing system and the accelerating tube). There are 4 figures and 5 references 2 Soviet-bloc and 3 non-Soviet-bloc. The English language references read as follows:

Ref. 51 W. Bleakney, Phys.Rev., 1929, v.34, 157, Ref. 4: W. Bleakney, Phys.Rev., 1930, v.35, 139, Ref. 5: W. Bleakney, Phys.Rev., 1930, v.35, 130, SUBMITTED: April 26, 1961

Card 3/8

ACC NR: AP7004152

SOURCE CODE: UR/0375/67/000/001/0052/0056

AUTHOR: Churov, Ye. P. (Professor; Doctor of technical sciences; Engineer; Captain 1st rank); Zakolodyazhnyy, V. P. (Candidate of technical sciences; Captain 2d rank); Meleshuk, B. V. (Candidate of technical sciences; Captain 2d rank)

ORG: none

TITLE: Ship navigation problems. Analytical methods of computation of observed coordinates

SOURCE: Morskoy sbornik, no. 1, 1967, 52-56

TOPIC TAGS: ship navigation, electronic computer, digital computer

ABSTRACT: Methods of computer processing of information supplied by the ship-board navigation instruments in order to determine the position of a ship at sea is discussed. The advantages and shortcomings of the method of direct calculation of coordinates at an observed point and those of the generalized method (approximate from a mathematical point of view) of the lines of position are compared and discussed. Various authors who are in favor of the first method are quoted and criticized. The authors of the article stress the advantages of the second method.

Card 1/2

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USSR/Cultivated Plants - Grains

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Abs Jour

: Ref Zhur Biol., No 12, 1958, 53538

Author

Maleskins, A.

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Title

: A Promising Variety of Winter Wheat

Orig Pub

: Padonju Latv. kolchoznieks, 1957, No 7, 22 Kolkhoznik

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Sov. Latvii, 1957, No 7, 21

Abstract

: This article gives data on the variety trials of 36 varieties of winter wheat on 6 variety testing plots.

The most promising ones are: Kursas, Wheat-couchgrass hybrid 1 and Wheat-couchgrass hybrid 599. Priyekul'sk Experimental Station brought out medium Ripening variety Priyekul'skaya 481; the absolute weight of the grains is 36-42 g; it does not damp off and has medium resistance to diseases. The milling and bread baking qualities are medium. With regard to winter resistance and yield, it surpasses the control varieties - Wheat-couchgrass hybrid 1 and Kursas. -- A.F. Khlystova

Card 1/1

MELETINSKIY, Ye. M. "Pervobytnoye naslediye v arkhaicheskikh eposakh." report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

POLAND/Chemical Technology - Processing of Solid Fuels (Naturally Deposited).

н.

Abs Jour

: Ref Zhur - Khimiya, No 16, 1958, 55084

Author

Meletsky, Zyulkovsky, Neytaler.

Inst Title The Use of Chemicals in the Prevention of Coal and Sand

from Freezing Together.

Orig Pub

: Przegl. gorniczy, 1957, 13, No 11, 566-568

Abstract

: The experimental data and practical instructions are given for the use of aqueous solutions or solid calcium chloride for preventing coal and sand from freezing together in railroad cars. Operational details are given for wetting the coal and sand with the above mentioned chemicals during the loading procedure. An approximate equation is given for calculating the amount of

calcium chloride required.

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